

3727

MEMORANDUM

TO: FILE

DATE

10/28/82

FROM:

C. Young

SUBJECT:

SITE NAME: HEYDEN CHEMICAL PLANT

ALTERNATE

NAME: AMERICAN CYANAMID CO.

CITY: Princeton, STATE: NJ

OWNER(S)

Past: HEYDEN CHEMICAL CORP Current: LOCAL LAND DEVELOPMENT CO.

Owner contacted ☐ yes ☒ no; if yes, date contacted

TYPE OF OPERATION

☐ Research & Development☒ Facility Type☐ Production scale testing☐ Pilot Scale☐ Bench Scale Process☐ Theoretical Studies☐ Sample & Analysis☒ Manufacturing☐ University☐ Research Organization☐ Government Sponsored Facility☐ Other☐ Production☐ Disposal/Storage

TYPE OF CONTRACT

☐ Prime☐ Subcontractor☐ Purchase Order☐ Other information (i.e., cost + fixed fee, unit price, time & material, etc)

Contract/Purchase Order # No Contract with AEC indicated

CONTRACTING PERIOD:

N/A

OWNERSHIP:

AEC/MED
OWNEDAEC/MED
LEASEDGOVT
OWNEDGOVT
LEASEDCONTRACTOR
OWNEDCONTRACTOR
LEASED

LANDS

☐☐☐☐☒☐

BUILDINGS

☐☐☐☐☒☐

EQUIPMENT

☐☐☐☐☒☐

ORE OR RAW MATL

☐☐☐☐☒☐

FINAL PRODUCT

☐☐☐☐☒☐

WASTE & RESIDUE

☐☐☐☐☒☐

AEC/MED INVOLVEMENT AT SITE

Control

- ☐ AEC/MED managed operations
- ☐ AEC/MED responsible for accountability
- ☐ AEC/MED overviewed operations
- ☐ Contractor had total control
- ☐ unknown

☐ Health Physics Protection

- ☐ Little or None
- ☐ AEC/MED responsibility
- ☐ Contractor responsibility

MATERIALS HANDLED:

Type (on basis of records reviewed)

- ☐ No Radioactive
- ☐ Natural Radioactive from Feed Materials Production
 - ☐ Ore
 - ☐ Refined Source Material
 - ☐ Residue
- ☒ Natural Radioactive Material from Non-Nuclear Activities
- ☐ Man-Made
- ☐ Other

Comment Residue from production of Thorium oxide for use of
chemicals, probably for use in medical applications

Quantities (on the basis of records reviewed)

- ☐ None
- ☐ Production Quantities
- ☐ Small Amounts

Comment Quantities unknown

OTHER PERTINENT FACTS:

☐ Facility was Licensed

- ☐ During AEC/MED-Related Operations
- ☐ For Similar Activities
- ☐ For Other Activities

Comment _____

☐ Commercial Production Involving Radioactive Material during AEC/MED Operations

☐ Facility was Decontaminated and Released

☐ Availability of Close Out Records

☐ None

☐ Some

☐ Sufficient

☐ Radioactive Status:

YES

MAYBE

PROBABLY
NOT

NOT

Contaminated
Potential for
Exposure
(accessible)

X

X

QUANTITY OF RECORDS AVAILABLE:

☒ Very Little

☐ Some

☐ Sufficient

PROBABILITY OF FINDING ADDITIONAL RECORDS:

☒ Low

☐ Possible

☐ High

RECOMMENDATIONS:

☒ Eliminate

☐ Consider for Remedial Action

☐ Collect More Data

Comment Recommendation based primarily on absence of contractual relationship between Heyden and AEC. Therefore, no authority.

REFERENCES: AEC Memorandum: S. Braiden to B. Schwartz, subject: Disposal of Residue and Tailings by the Heyden Chemical Corporation, September 14, 1954

AEC Memorandum: F. R. Dowling to J. Quinlan, subject: Disposal of Residue and Tailings by the Heyden Corporation, September 29, 1954.

Contact with American Cyanamid employees and former employees of Heyden Chemical.

SUMMARY

Thorium residues at the Heyden plant were owned by Heyden Chemical. No indication that the AEC purchased the material. No contractual relationship between Heyden and AEC. Therefore, no authority is evident to support further investigation by DOE. Original facility destroyed and entire area developed. Quantity of material believed to be relatively small in view of the extensive development in the area. The probability of locating any residual radioactive contamination is considered remote.